

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of Claims

Claim 1 (currently amended) A prophy chip, mounted on ~~[[the]]~~ a top of a dental rotary instrument for cleaning, polishing, and burnishing teeth, comprising:

a hollow cup-shaped core with canopy (semispherical), cylindrical, cupped, conical, inverted conical, or disk profile;

a shaft containing a connecting means for connecting the prophy chip to the dental rotary instrument to avoid vibration around the rotation axis of the core during rotation;

a hydrophilic grindstone sponge covering the core, wherein the hydrophilic grindstone sponge comprises a grindstone therein; and

~~a shank equipped or an~~ undulated latch plate fixing the hydrophilic grindstone sponge by folding the edge thereof into the interior ~~or the bottom~~ of the core, ~~or for gripping;~~

wherein the hydrophilic grindstone sponge is immersed in water prior to operation or absorbed saliva during operation without using a polishing paste to dissipate heat generated by friction.

Claim 2 (currently amended) The prophy chip as claimed in claim 1, wherein the hydrophilic grindstone sponge is hydrophilic latex sponge, or polyurethane sponge, and the hydrophilic latex sponge or the hydrophilic polyurethane sponge comprises a grindstone of  $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$  or  $\text{Ca}_{10}(\text{PO}_4)_6\text{F}_2$  as a wet grindstone sponge covering the core.

Claim 3 (currently amended) The prophy chip as claimed in claims 1 or 2, wherein the hydrophilic grindstone sponge further comprises at least one water soluble agent consisting of a foaming agent, a sweetener, a fragrance, a medicament for inhibiting or preventing periodontal diseases or dental caries, or a coating agent.

Claim 4 (currently amended) The prophy chip as claimed in claims 1 or 2, wherein the core is reticular or porous and at least one water soluble agent consisting of a foaming agent, a sweetener, a fragrance, a medicament for inhibiting or preventing periodontal diseases or dental caries, ~~or a coating agent is disposed in the hollow portion of the core, or the core is filled with a water-retaining sponge immersed in the water soluble agent, wherein the water soluble agent is releasable from the surface of the hydrophilic grindstone sponge covering the core.~~

Claim 5 (currently amended) The prophy chip as claimed in any one of claim 1, wherein ~~[[the]]~~ an outside of the core is nonwoven to maintain the hydrophilic grindstone sponge and has hydrophilicity and flexibility.

Claim 6 (currently amended) The prophy chip as claimed in any one of claim 1, wherein ~~[[the]]~~ an outside of the sponge covering the core is a three-dimensionally continuous, porous film for conducting a solution from a flexible polishing agent.

Claim 7 (new) The prophy chip as claimed in claim 1, wherein a coating agent is disposed in the hollow portion of the core.

Claim 8 (new) The prophy chip as claimed in claim 1, wherein the core is filled with a water-retaining sponge immersed in a water soluble agent, wherein the water soluble agent is releasable from the surface of the hydrophilic grindstone sponge covering the core.